

THE NZHIA

# iHEMP

DISCOVERY & INVESTMENT

# TOUR 2022

FOOD • FIBRE • HEALTH



## WHANGĀREI

Exploring hemp's  
economic and  
sustainability potential:  
**Optimising use of Māori  
freehold land**

SPONSORED BY:

**AGMARDT**



MCKAY STADIUM

Wednesday 8 June 2022

PRESENTED BY RICHARD BARGE



THE NZHIA

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DISCOVERY & INVESTMENT

## TOUR 2022

FOOD • FIBRE • HEALTH

# SPEAKERS



**RICHARD BARGE**  
(NZHIA)

The NZHIA Chair presents a history of hemp in Aotearoa New Zealand and a new iHemp industry for Northland.



**DOUG STURROCK**  
(ROCKSTEAD CONSTRUCTION)

Building with hemp in New Zealand and the northland region and how it can benefit both people and the environment.



**NGAIRO TAHERE**  
(TE AKAAKANUI  
TĀPUI LTD )

Te mutunga a Tautahi, te koha a Rua - What will be the historical footprint to shaping the future and purpose of marae and papakāinga?



**SUZANNE HALL MNZM** (NGAWHA  
INNOVATION & ENTERPRISE PARK)

Sharing the opportunities for businesses with innovations, emerging crops, food processing, natural products, and ingredients production. Why bringing your business to the park will help you succeed.



THE NZHIA

iHEMP

DISCOVERY & INVESTMENT

TOUR <sup>20</sup>/<sub>22</sub>

FOOD • FIBRE • HEALTH

# PROGRAM

- 7.30 Pōwhiri
  - 7.50 NZHIA
  - 8.10 Doug Sturrock
  - 8.25 Ngairo Tahere
  - 8.50 Suzanne Hall
  - 9.00 NZHIA
  - 9.15
- Welcome
- Introduction and History
- Rockstead Construction
- Te Akaakanui Tāpui Limited
- Northland Council
- Business plans - Why
- Question and Answers
- Till Close



# NZ Hemp Industries Association iHemp and History



Growers and Cultivators



Testing and Development

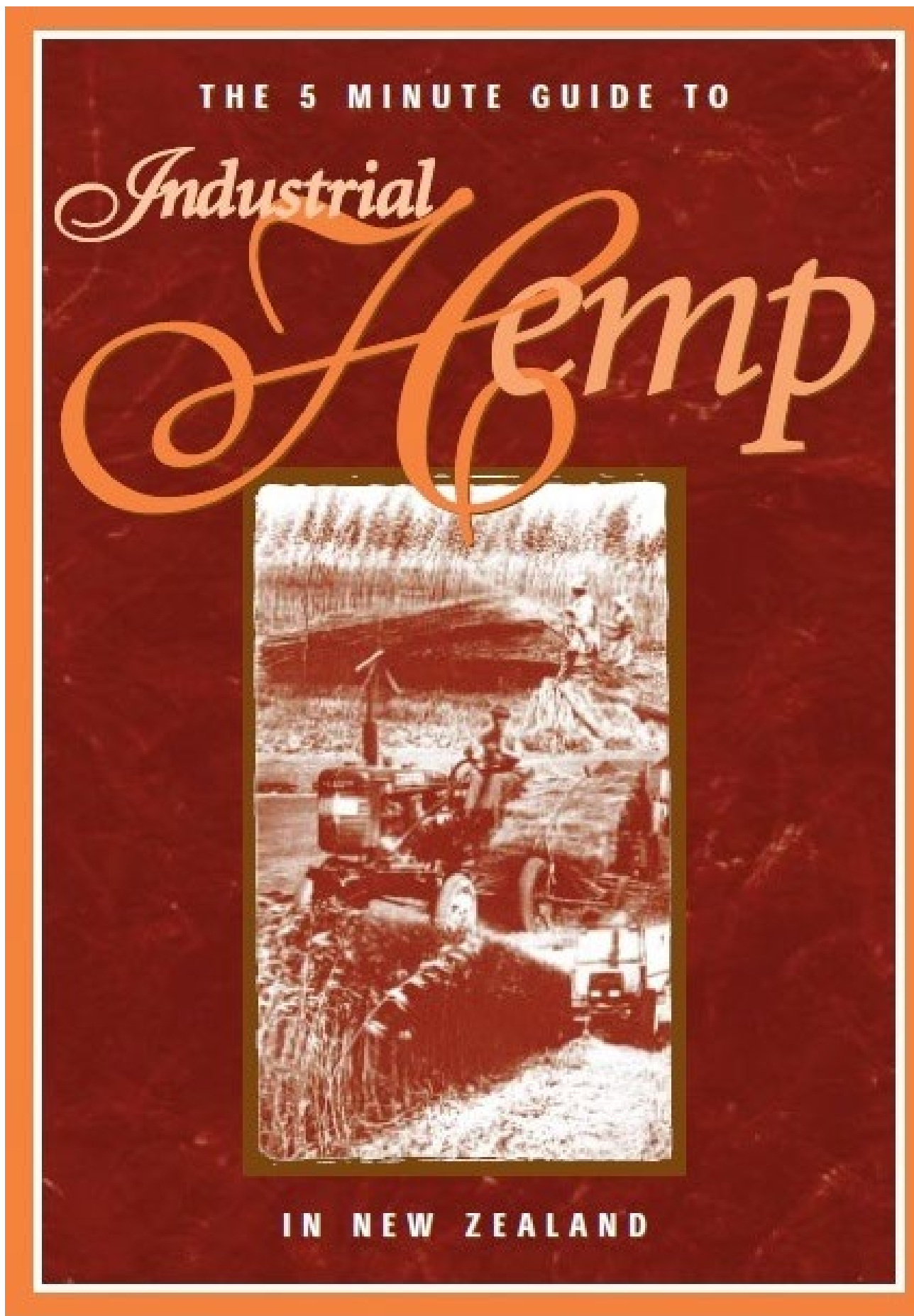


Processors and Manufacturers



Distributors and Consumers






**NZ HEMP EXPORT DRIVEN INVESTOR REPORT:**  
 \$2 BILLION AND  
 20,000 REGIONAL JOBS BY 2030  
 JUST NEEDS THE NOD...

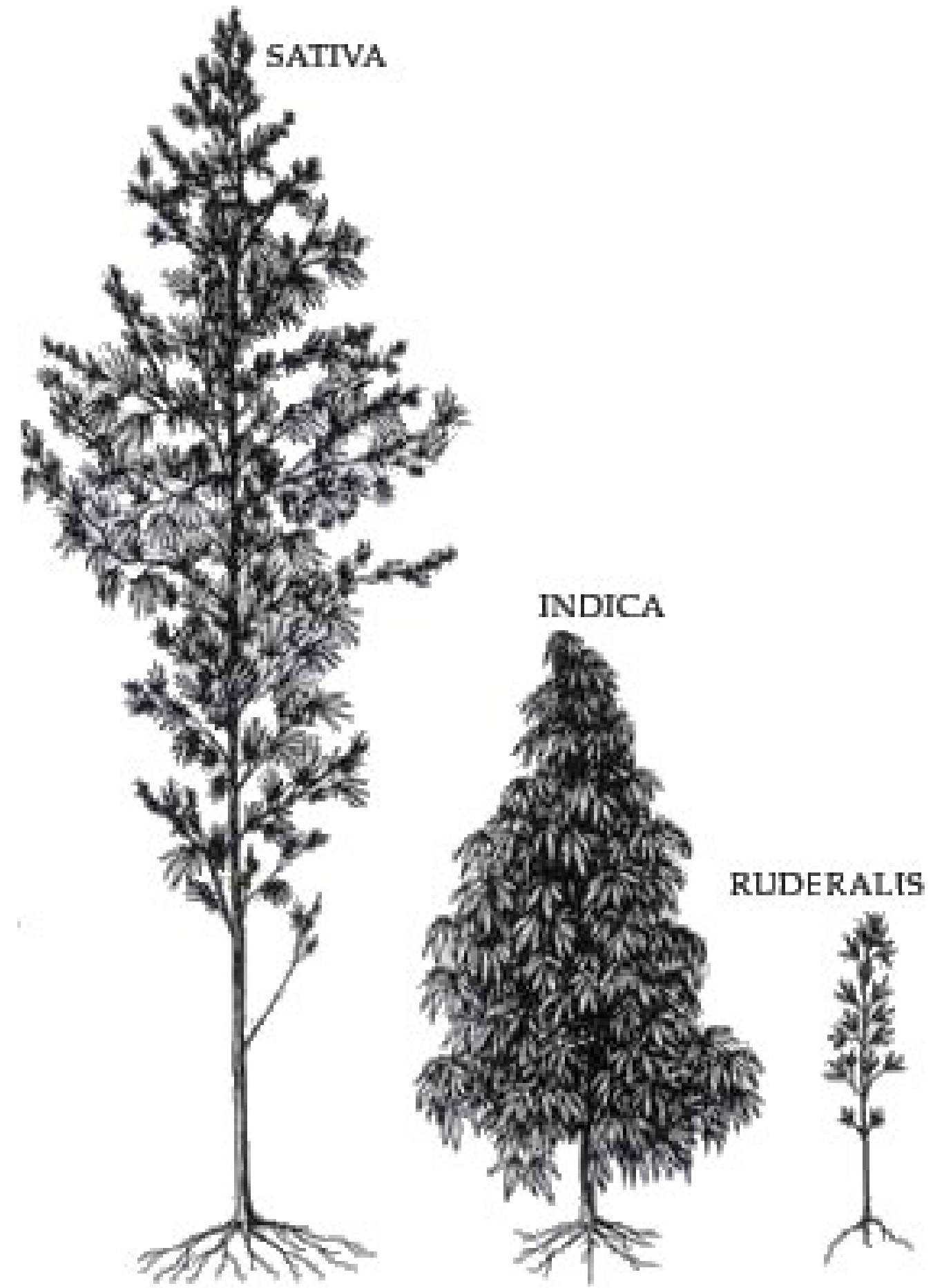


**G R O W T H**

**FULL REPORT**



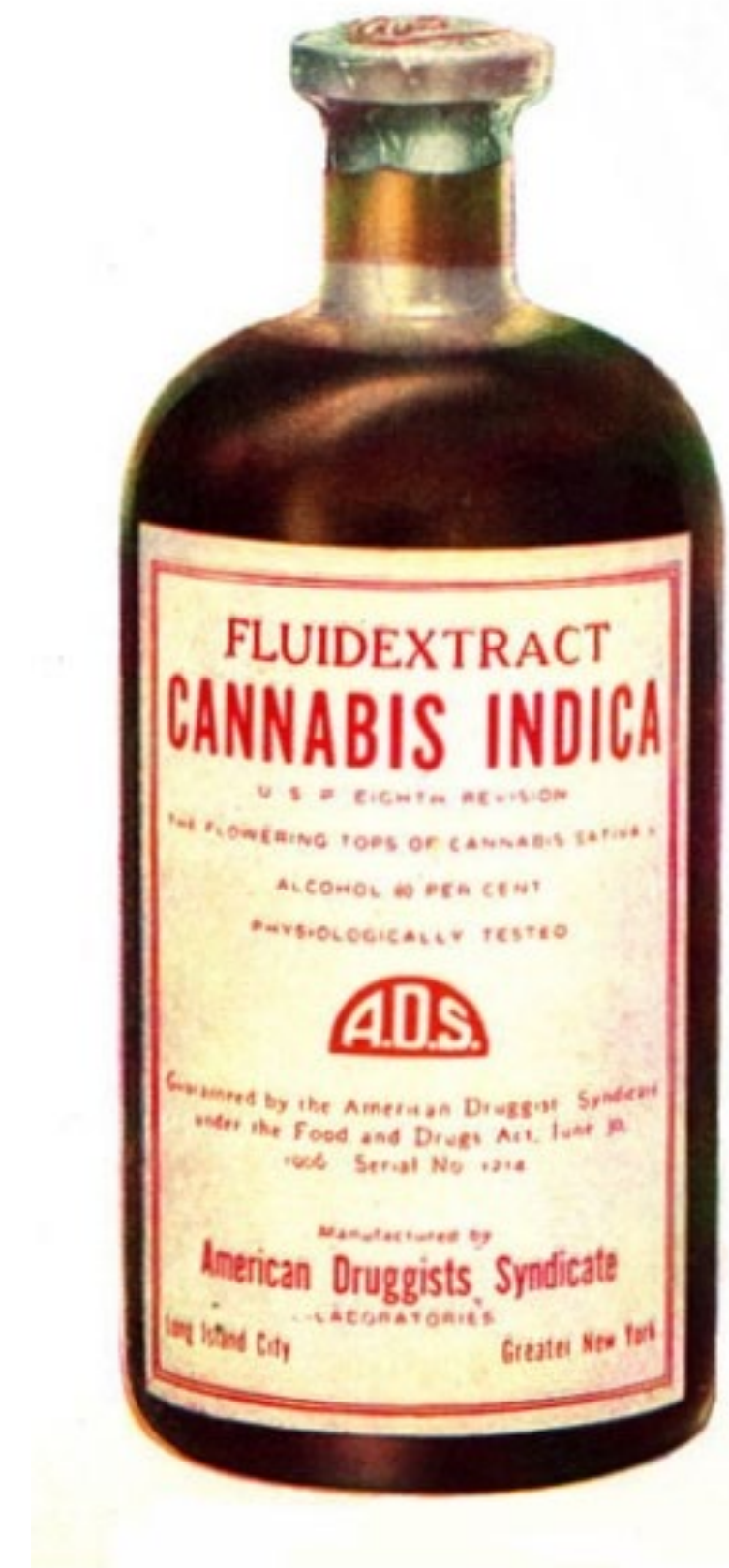
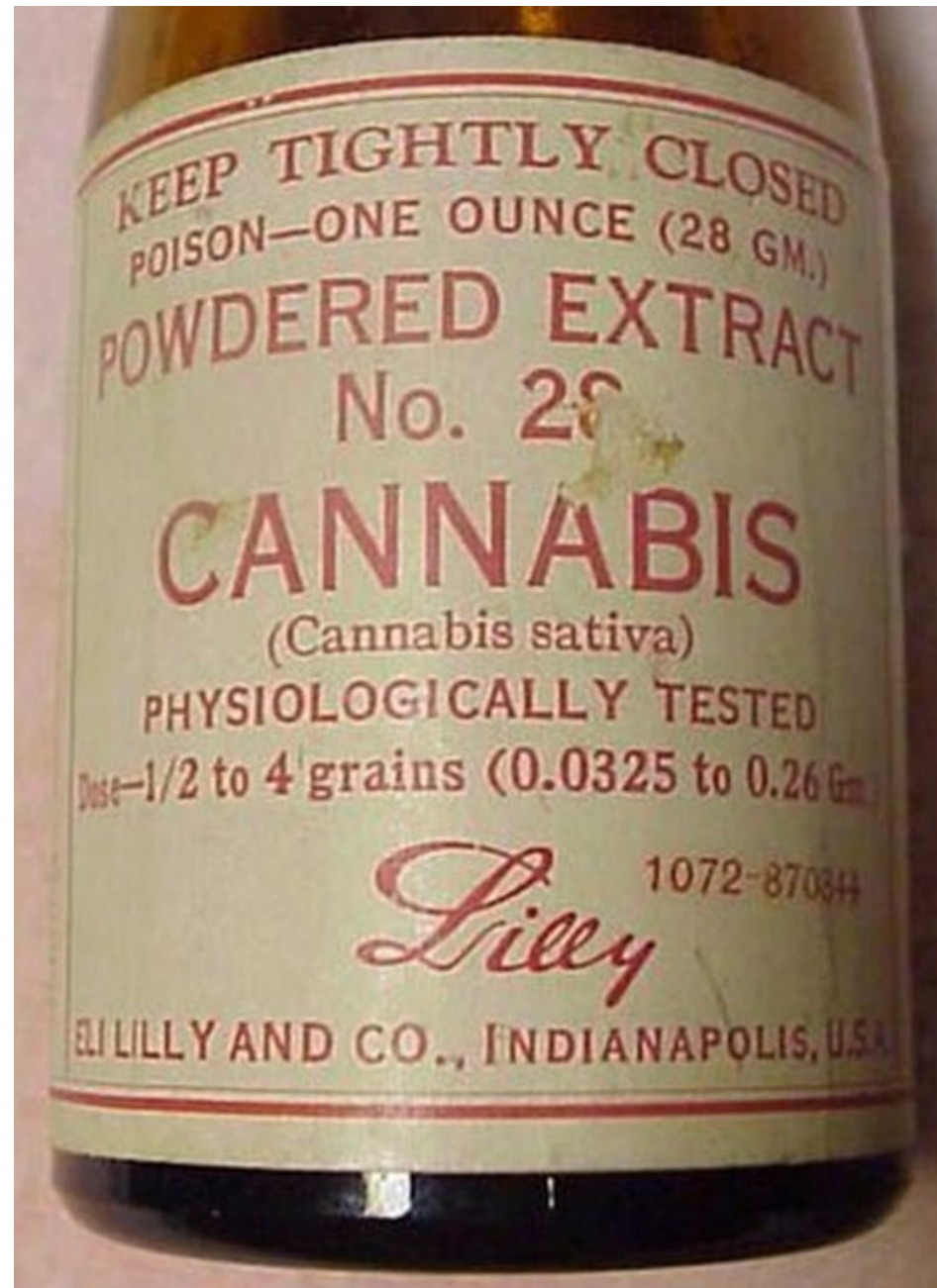
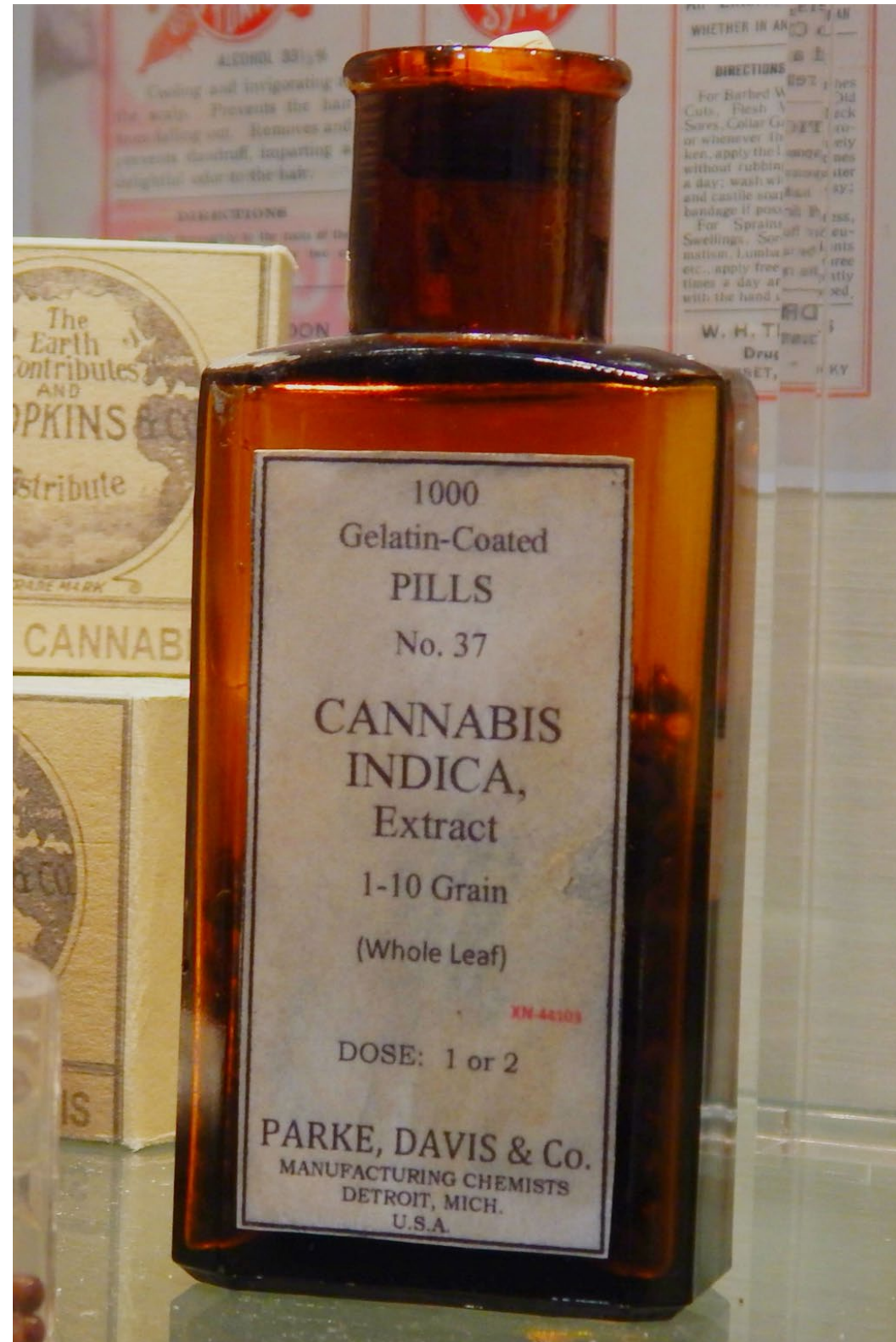














UNITED STATES DEPARTMENT OF AGRICULTURE  
BULLETIN No. 404

Contribution from the Bureau of Plant Industry  
WM. A. TAYLOR, Chief

Washington, D. C. PROFESSIONAL PAPER October 14, 1916

HEMP HURDS AS PAPER-MAKING  
MATERIAL

By  
LYSTER H. DEWEY, Botanist in Charge of Fiber-Plant Investiga-  
tions, and JASON L. MERRILL, Paper-Plant Chemist  
Paper-Plant Investigations

This bulletin is printed on paper manufactured from hemp hurds,  
run No. 143, which is recorded on page 20

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WASHINGTON  
GOVERNMENT PRINTING OFFICE  
1916

BILLION-DOLLAR CROP

petition with multi-produced foreign fiber while paying farmers \$1000 a ton for hemp as it comes from the field. From the farmer's point of view, hemp is an easy crop to grow and will yield from three to six tons per acre on any land that will grow corn, wheat, or oats. It has a short growing season, so that it can be planted after other crops are in. It can be grown in any state of the union. The long roots penetrate and break the soil to leave it in perfect condition for the next year's crop. The dense stand of leaves, eight to twelve feet above the ground, shades out weeds. Two successive crops are enough to reclaim land that has been abandoned because of Catfish disease or quack grass.

Under old methods, hemp returned to paper about



Fig. 1. Machine method of hemp plant work from field. Bottom, horizontal hemp with a grade tractor. Hemp grows luxuriantly in 7 days.

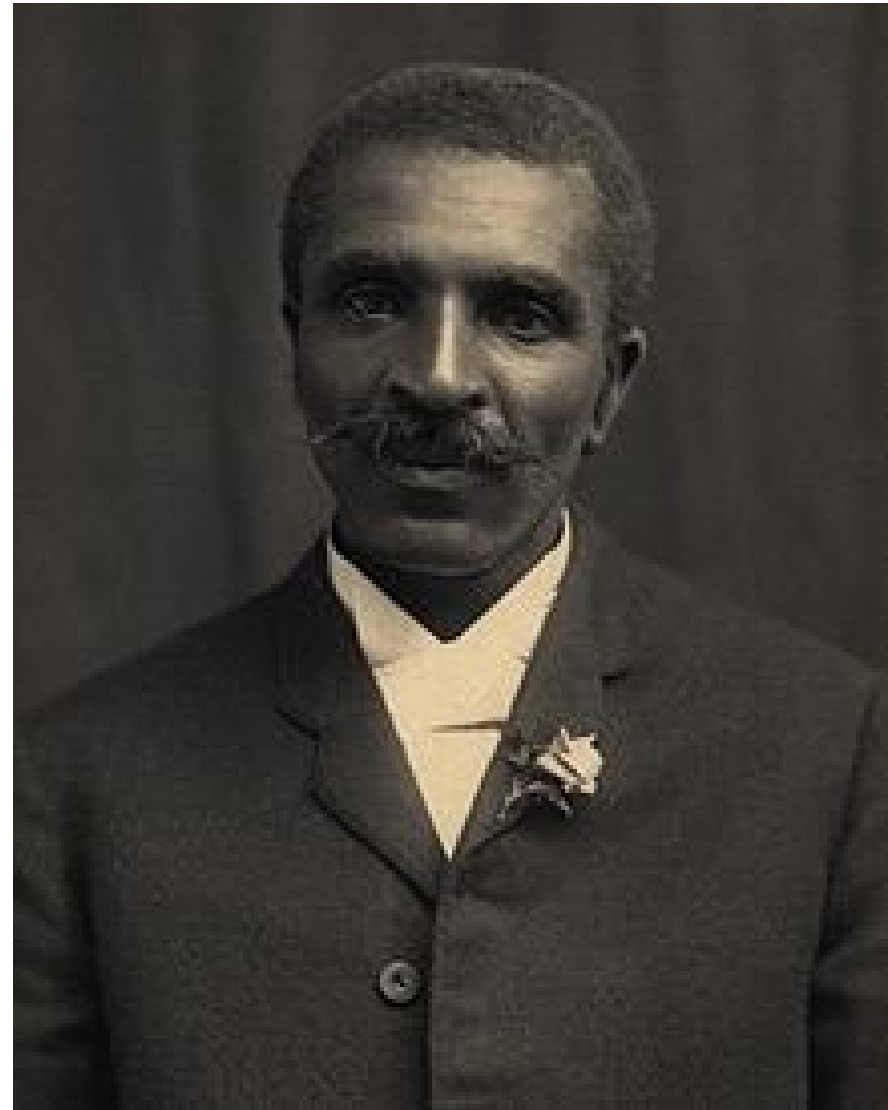


FARMERS' BULLETIN No. 1935  
U. S. DEPARTMENT OF AGRICULTURE





**Chemurgy** is a branch of applied chemistry that is concerned with preparing industrial products from agricultural raw materials

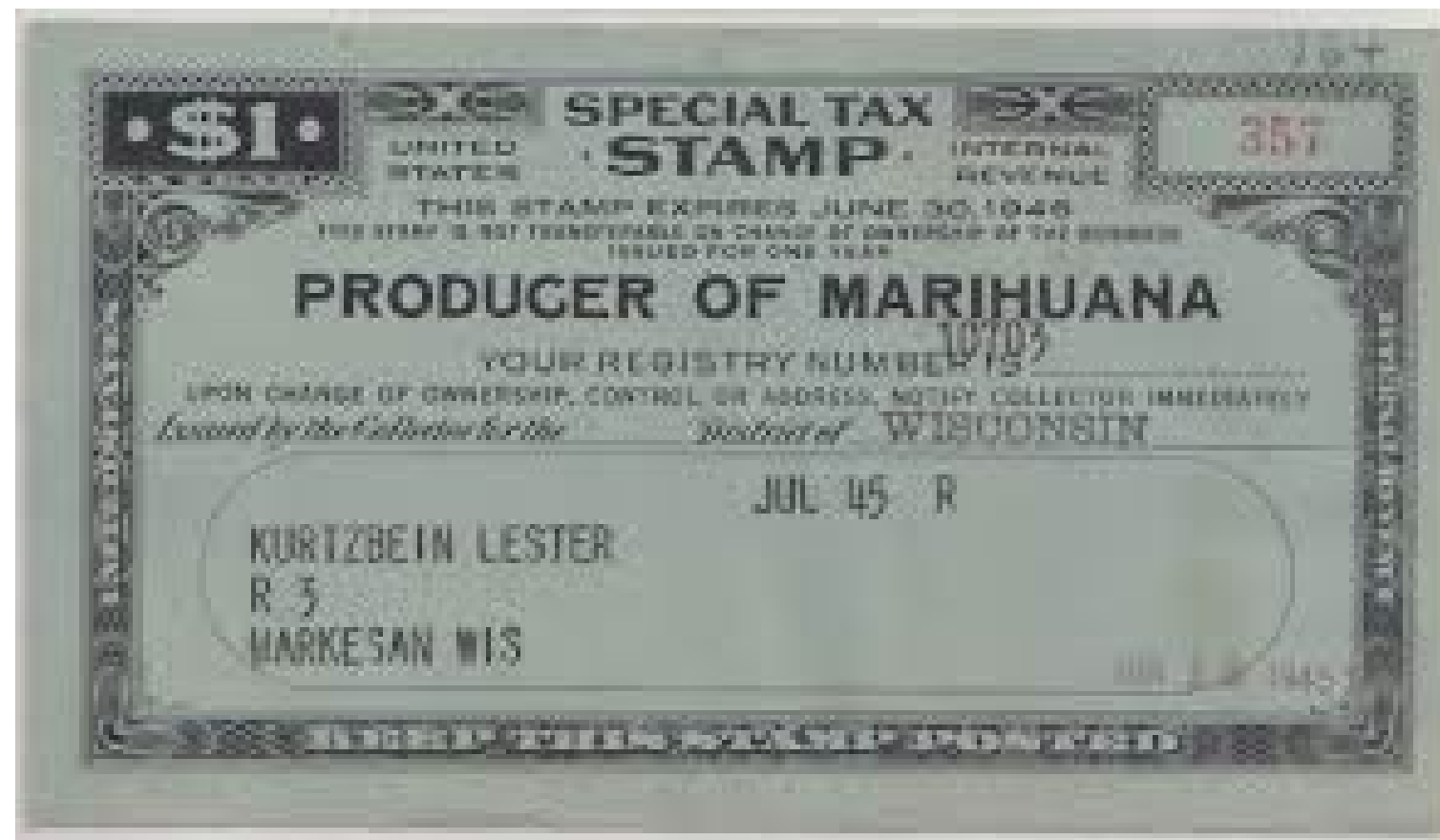
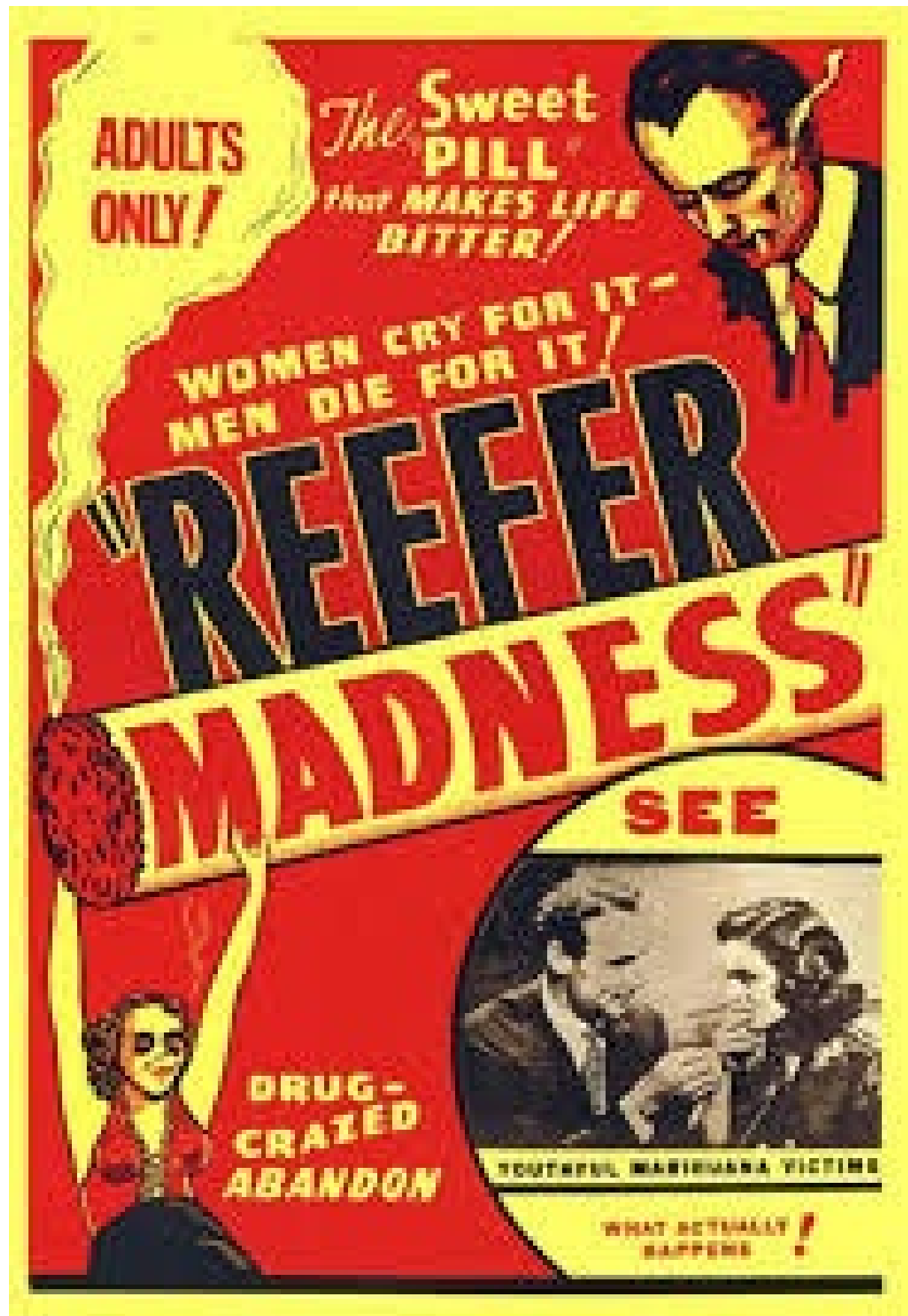


George Washington  
Carver c1910



Henry Ford c1930









*All the hempseed available in the U. S. is stacked in this Kentucky warehouse under armed guard. Next year, USDA hopes, there'll be enough to grow 350,000 acres.*

Photo: U.S.D.A. by Forney/Re

**The Humorous Hemp Primer**

The cover shows the male plant eager to pollenate the willing female.

Prim  
impo  
hume  
form  
doub  
hemp  
the n

HERER - BROCKERS - KATALYSE  
DIE WIEDERENTDECKUNG  
DER NUTZPFLANZE  
CANNABIS MARIHUANA

# Hanf

EINE DER ÄLTESTEN KULTURPFLANZEN DER ERDE KÖNNTE HELFEN, DIE MENSCHEN AUSREICHEND MIT KLEIDUNG, PAPIER, ÖL, BRENNSTOFF, NAHRUNG, BAUMATERIAL UND VIELEN MEDIZINEN ZU VERSORGEN

ZWEITAUSENDEINS

Reich  
Nutri

**The Lustrous HempFiber**

film "Hem  
that Germ  
effort to  
productio  
World W  
"The H  
is reprod  
with Eng  
Steinhau





SINGLE CONVENTION  
ON  
NARCOTIC DRUGS, 1961,

as amended by  
the 1972 Protocol Amending the Single Convention  
on Narcotic Drugs, 1961



*Article 28. Control of cannabis*

1. If a Party permits the cultivation of the cannabis plant for the production of cannabis or cannabis resin, it shall apply thereto the system of controls as provided in article 23 respecting the control of the opium poppy.
2. This Convention shall not apply to the cultivation of the cannabis plant exclusively for industrial purposes (fibre and seed) or horticultural purposes.
3. The Parties shall adopt such measures as may be necessary to prevent the misuse of, and illicit traffic in, the leaves of the cannabis plant.





# Misuse of Drugs (Industrial Hemp) Regulations 2006

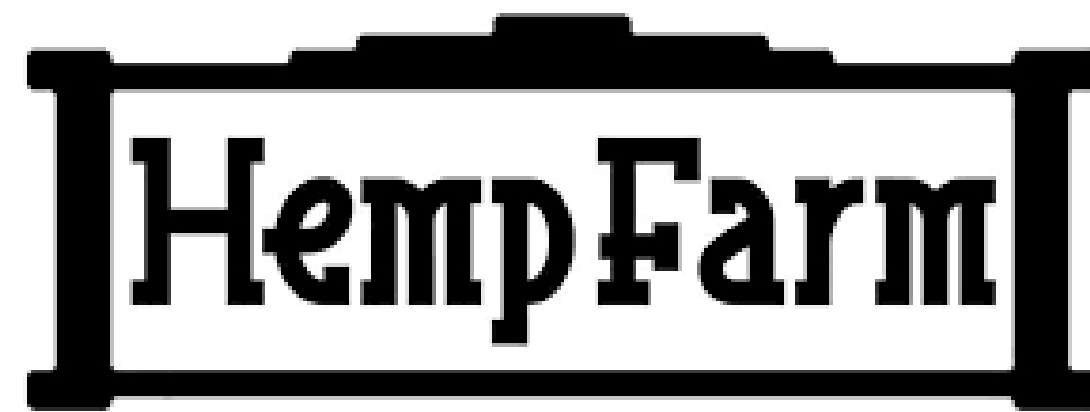
(SR 2006/163)

## 3 Object

The object of these regulations is to enable the cultivation and distribution of industrial hemp under a licensing regime that ensures that other forms of cannabis are not cultivated and distributed under the guise of industrial hemp.







[hempfarm.co.nz](http://hempfarm.co.nz)



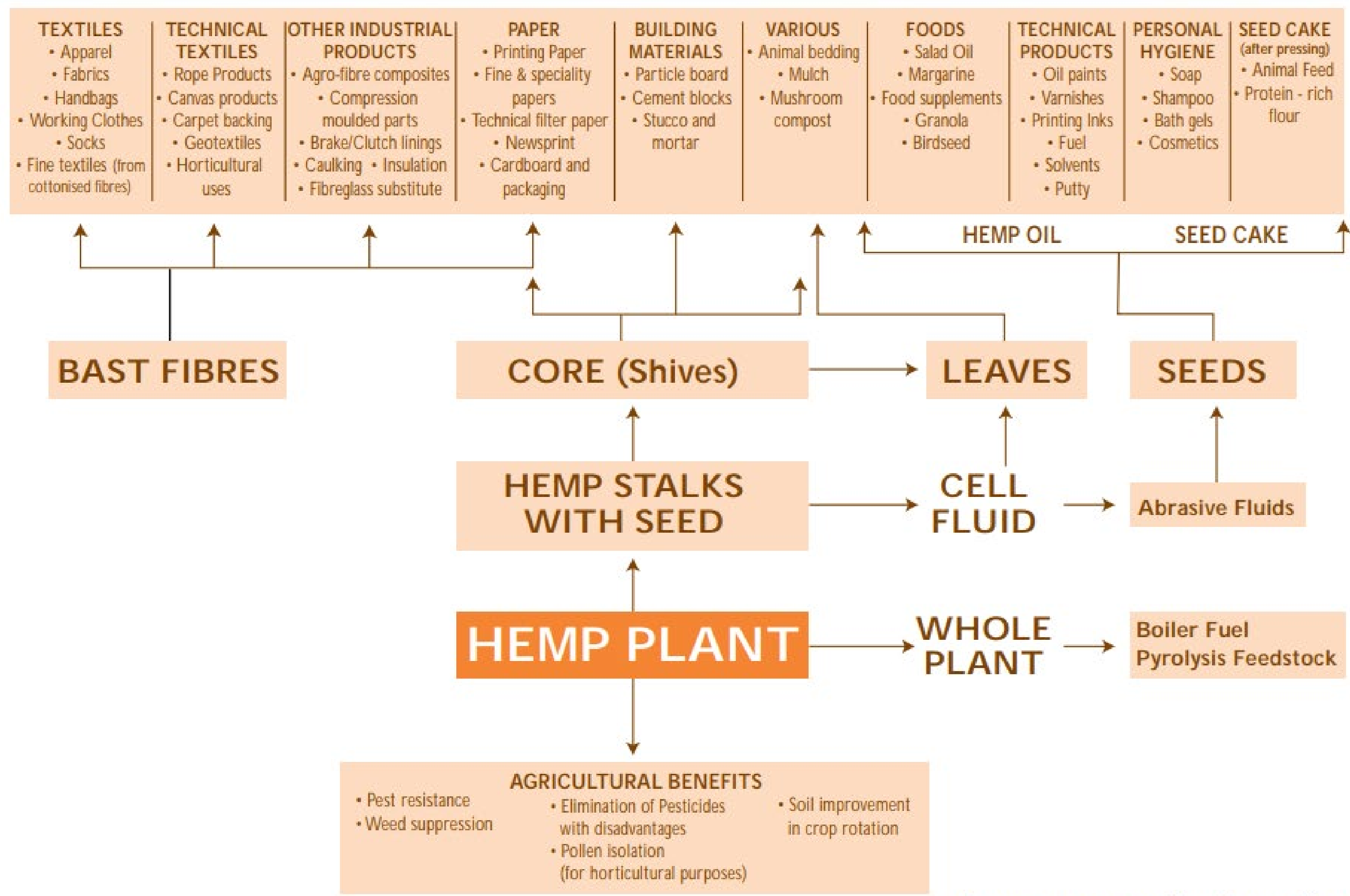




Hemp Construction Materials







ADAPTED FROM A VERSION BY RURAL INDUSTRIES RESEARCH & DEVELOPMENT CORPORATION, ACT AUSTRALIA



## STALK

### FIBER



TEXTILES



INSULATION



ROPE

### HURDS



PAPER



ORGANIC COMPOST



ANIMAL BEDDING



FIBER BOARD

## SEEDS

### OIL



COOKING/SEASONING OIL



DIETARY SUPPLEMENT



BODY CARE PRODUCTS



FUEL



PAINT

### SEED CAKE



FLOUR



BEER



ANIMAL FEED

### HEMP NUT



MILK/DAIRY



BAKERY



GRANOLA



PROTEIN POWDER

## ROOTS



MEDICINE



ORGANIC COMPOST

## LEAVES/FLOWERS



ANIMAL BEDDING



MULCH/COMPOST



MEDICINE/RECREATION

# THE MANY USES OF HEMP

**THE HEMP PLANT HAS  
UP TO 25,000 USES**





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TOUR 20  
22

FOOD • FIBRE • HEALTH

# WHY HEMP?

This pioneering industry is on the edge of incredible growth. We're looking for farmers, growers, entrepreneurs and businesses who want to discover how to invest, upskill and become part of Aotearoa New Zealand's next billion dollar economy.



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Sharing the opportunities for businesses with innovations, emerging crops, food processing, natural products, and ingredients production. Why bringing your business to the park will help you succeed.



# Building with Hempcrete

**Rockstead Construction**

**Licenced Certified Sustainable Builders,  
Northland**



# A LOOK AT HISTORIC NZ BUILDING PRACTICES

- Building practices in New Zealand have evolved over the last century:
  - Solid timber - long lasting, great ventilation but cold
  - Manufactured wall linings – improved insulation, easier maintenance but less durable and poor ventilation
  - Exterior cladding systems – visual point of difference, further improved insulation, poor ventilation
- Current building practices all following European passive home standards to save energy heating and cooling.....**but at what cost?**

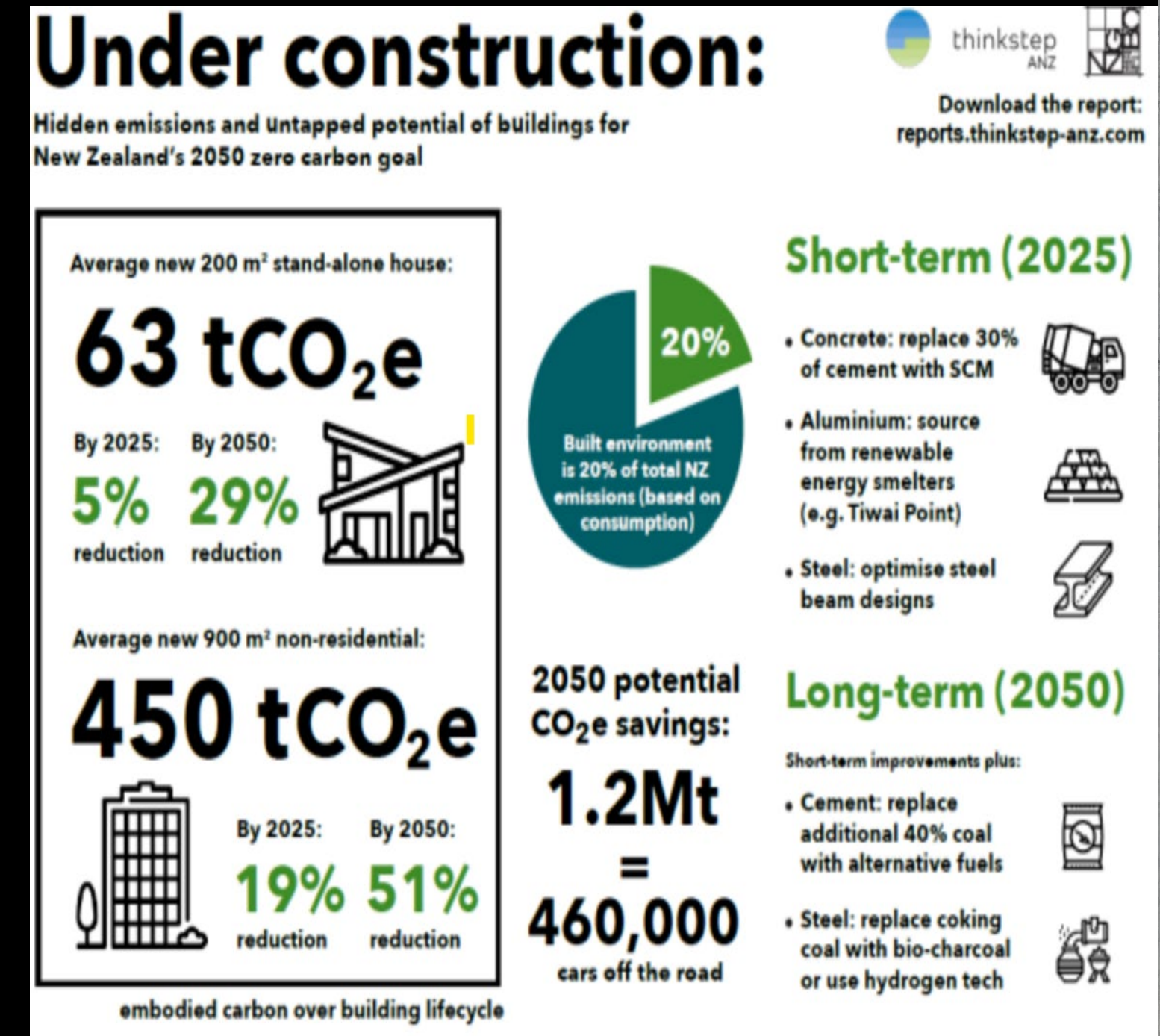




# CLIMATE CHANGE RESPONSE (ZERO CARBON) AMENDMENT ACT 2019

## Targets for carbon emissions:

- All new buildings zero carbon by 2030
- All buildings zero carbon by 2050
- Key driver leading step change in the industry
- Innovation needed to meet these targets





# HEMPCRETE – AN ALTERNATIVE SOLUTION

- **What is it?**
- **How does it work?**
- **What are the benefits?**





# ROCKSTEAD CONSTRUCTION - HEMPCRETE





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# Te Akaakanui Tāpui Limited



Pākihi iKōaka (HEMP) Ahuwhenua Aotearoa



# Poupou Karanga Karakia

Haramai te aka nui

Haramai te aka roa

Haramai te akaaka matua

Nā Io-Mātua-Taketake- te- Waiora

Ki tēnei tamahine nāu

E Io-Tikitiki-i-te-rangi e...i

Nau mau kia marama atu ai ki ngā tirohanga whānui,

Tirohanga hōhonu

Mai te pae tāwhiti

Ki te pae tata

Kia tū teitei, kia tū hāngai

Te mana tuku iho i karangatia rā, e tū Tamawāhine

Te urunga tū, te urunga pae, te urunga tapu,

ā-whānau, ā-hapū, ā-iwi e

Mauri ora!





# Aronganui:

Te mutunga a Tautahi, te koha a Rua



The logo is a circular emblem with a black background. It features a central green design consisting of two stylized eyes facing each other, with a central vertical element that resembles a stylized 'R' or a traditional Maori symbol. The design is composed of bold black outlines and solid green areas. The text 'Te Koha a Rua' is centered over the logo in a white, sans-serif font.

Te Koha a Rua



# Poukapa Kōaka





# He aha ngā kaupapa ako

## Te mutunga a Tautahi

- Te Wakaputanga
- Reo me ōna tikanga
- Kaupapa a-marae, a-hapori, a-hapū
- Papakāinga
- Mahinga Kai
- Parakore

## Te koha a Rua

- Hikurangi Enterprises Limited
- East Coast Hemp Organisation
- APA Architects & Project Managers
- Kaupare LAW
- Miraka (Constitution)
- Ngā kaitatau Māori o Aotearoa
- MIHI-Movers In Hemp Innovation
- I.W.I (Banking/ Lending)



# NGĀ HUĀNGA

- Kia rere te reo me ōna tikanga
- Kia 50 ngā kāinga kei Tai Tokerau
- Kia waru ngā whare i a hapū, takiwā, whānau
- Kia rima ngā takiwā a- marae, hapū, whakatū whare
- Kia waihanga marae hou, whakahou rānei





Request to Join



# Anez White

## Indigenuity

I.W.I.



**join my private safe community of Māori who want solutions  
for Māori Land, Money and Marae**



## IO - East Coast Hemp Organi

ow, process and supply sustainable, industrial hemp mate


Videos

Pinned post

 **ECHO - East Coast Hemp Or**  
10 December 2015 · 🌐


apa architects & project managers

Home About Services Our Work News & Awards Contact



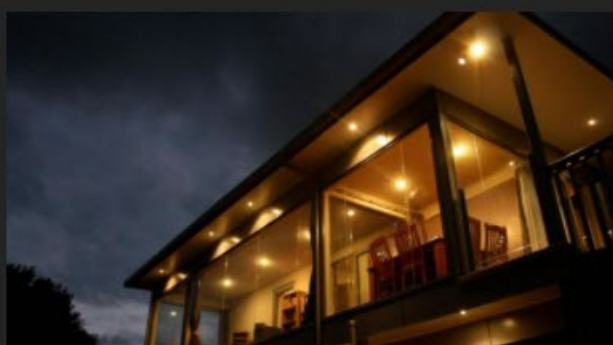
**Award Winning Tanatana Marae**  
Community Projects, Green Architecture, Home Page, Marae Architecture, Project Management

apa Architects, Rotorua were invited to the Marae in order to help develop a concept from inception to completion whilst adhering to a \$100,000



**Tabua Centre, Fiji**  
Commercial Architecture, Home Page, Islamic Architecture, Project Management, Residential Architecture


apa Architects and Project Managers NZ have been privileged to have been handpicked for this large development in Fiji which includes a shopping centre, multi-storey apartments, cultural market



**Casa Abdul**  
Home Page, Interior Design, Residential Architecture

A home & income successfully accomplished. Developed at market Peak of 2007 real-estate this house HAS BEEN A VERY successful 'win' for the owners. The building composes of two houses –

## erprises




**Nau mai, haramai.**

Whare Ora

## New Zealand Hemp Industries Association

Promoting the Economic, Environmental, Health and Social Benefits of the NZ Hemp Industry

SOURCES NEWS & MEDIA MEMBERSHIP EVENTS ABOUT NZ



OUR VISION:

ss boutique Hemp industry in New Zealand  
by customers worldwide.











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Te mutunga a Tautahi



# Te Akaakanui Whakatairanga

## Waihanga Whare Kōaka

- Amo Pakiaka #1
- Hemp Architects
- ECHO tuakana
- Builders
- Machinery
- Hemp/Lime/Blocks
- Kaimahi

## Tukanga Ahuwhenua Kōaka

- Amo Pakiaka #1
- Mobile processing
- Machinery
- Container
- Whenua
- Hemp blocks/wood
- Kaimahi

## Waihanga Whare Kōaka

- Amo Pakiaka #1
- License
- Whenua
- Nursery
- Seeds/ Plants
- Kaimahi

## Rangahau kōaka a-hapū, iwi, whānau

- Whatu Akaaka #1/#2
- Maramataka a-taiao
- Mātauranga a-hapū
- Kairangahau Māori
- Innovation Industry
- Hapū/Iwi .E.M.P



A green Maori koru design, a stylized spiral pattern, is centered on a black background. The design is symmetrical and features intricate, flowing lines that form a central vertical stem with two large, curved, leaf-like shapes on either side. The text "He papakino a Kirioke" is overlaid in white, centered horizontally and partially overlapping the central part of the koru design.

He papakino a Kirioke



# East Coast Hemp Organisation & Toby / Ziarh







Access to  
experts

Technology  
and product development

Innovation  
skills

R&D  
funding

Scale-Up NZ

Technology and product development

# Te Whare a Māui - The Māori Innovation Hub

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Hei mahere rautaki

[Hemp-Fibre-Roadmap](#)

[Hemp-Seed-Roadmap](#)





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**NGAWHA**  
INNOVATION  
& ENTERPRISE  
**PARK**

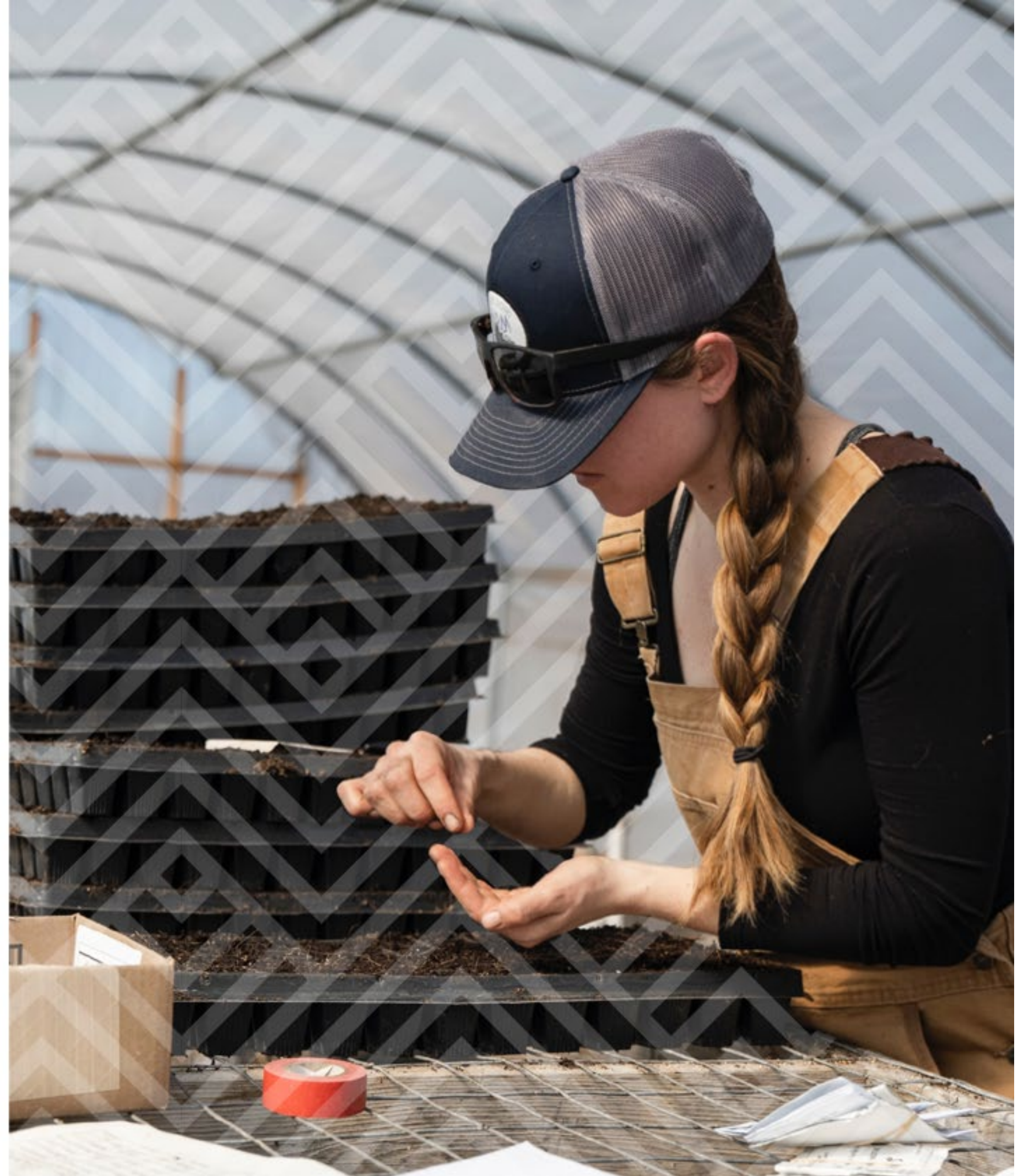




# NESTLED IN KAIKOHE **THE HEART** OF NORTHLAND

Our purpose is to be the centre of innovative business and processes using the region's abundant raw materials, supported by R&D and workforce training and development.

From early-stage start-ups, established businesses and collaborations to large multinationals, we seek businesses and entrepreneurs that share our values and vision.





# NGAWHA PARK MASTER PLAN



**HORTICULTURE**

- Stage 1
- Stage 2

**AREA SCHEDULE**

Consented Platform Area	394,615m <sup>2</sup>
Consented Building Area	10,006m <sup>2</sup>
Consented Tunnel Area	163,847m <sup>2</sup>
Future Development Platform Area	296,996m <sup>2</sup>
<b>Total Site Area:</b>	<b>2,605,190m<sup>2</sup></b>

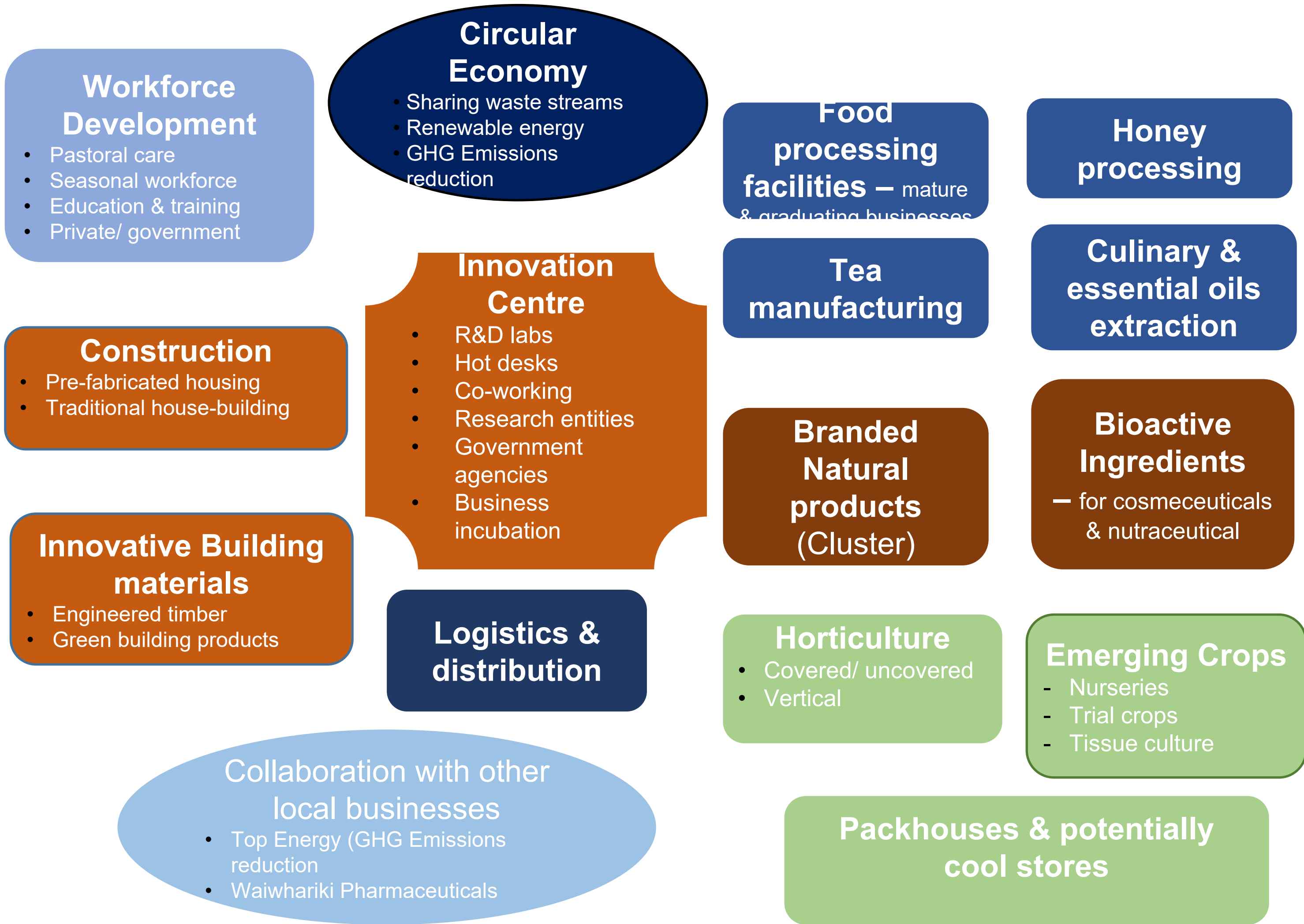
- KEY**
- Consented Platform Area
  - Carpark / Yard / Road
  - Future Development Area Platform
  - Outdoor Crop Zone >10degree
  - Native Species
  - Existing Wetland Zone
  - Dam / Reservoir / Stream / SW
  - Dam Pipeline
  - Irrigation Line
  - Stream Catchments

**ECOLOGICAL MAPPING**

Ecological Wetland	198,358m
Ecological Riparian Buffer	203,718m
Ecological Forest	86,391m <sup>2</sup>
Ecological Linkages	69,837m <sup>2</sup>

**PLATFORM MASTERPLAN**  
SCALE 1:7,000 @A3









# MANUFACTURING AND PROCESSING

---

The long-term strategy of The Park and Innovation Centre is to encourage the development of a food, beverage and ingredient processing and manufacturing industry in Northland by supporting entrepreneurship and innovation.

This is achieved through a combination of expertise, specialised facilities, links to established R&D - supporting product development, and interim processing within the Innovation Centre.

The Park looks to foster growth and commercialisation of your business. Working with industry stakeholders and companies of all sizes, The Park seeks to build value-added processing capacity and supports industry as it pursues new and existing opportunities.

Whether you are a start-up or medium sized business, the team will work with you in all aspects of your business to help you realise your potential to expand into either larger stand-alone or multi-unit processing facilities.



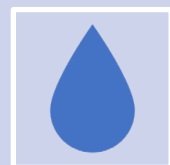
# GOALS



Increase employment opportunities and career pathways.



Increase productivity in the region



Protection of the whenua and water resources



Opportunities for iwi/hapu with growing crops and multiple value added processes on the park to keep high value in our region.



- **Purpose of the Park**

---

New & expanding businesses – attracting businesses that are new to the region or expanding & that are attracted to the environmental and social purposes of the Park.

---

Value-added manufacturing - Attracting value-added businesses that extract greater value from primary sector production.

---

Circular/closed loop economy – attracting symbiotic production/ manufacturing bringing cost-savings for businesses and improving their environmental footprint.

---

Complementary - attracting businesses that complement those in the District and that support higher value land use.

---

Workforce development – providing bespoke education and training for employers and employees – especially on-site and on-the-job.

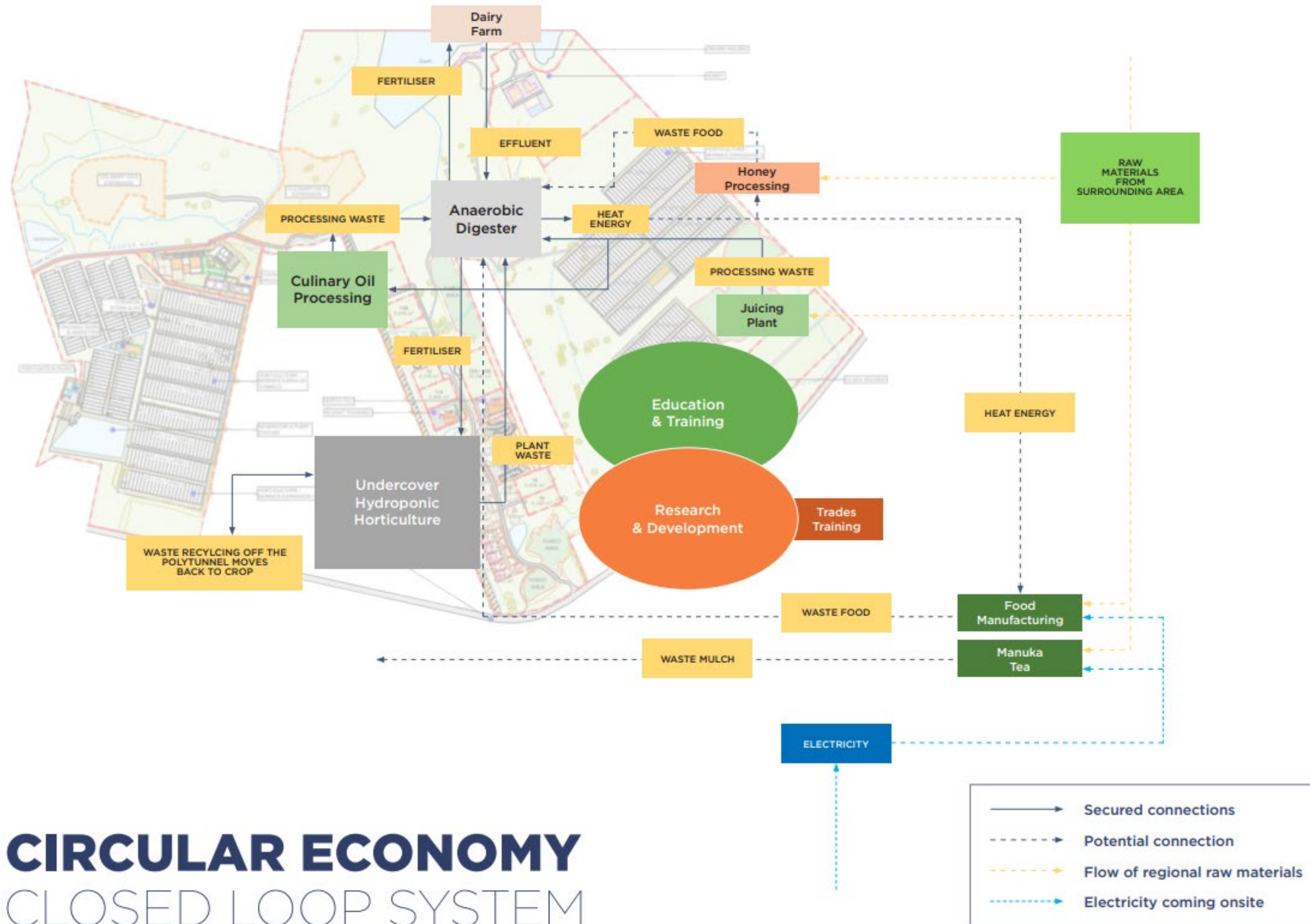
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Innovation - Providing a central location for R&D activity that supports not just Park businesses but the wider region.

---

Co-location of businesses ranging in maturity so they can support each other.





# CIRCULAR ECONOMY

## CLOSED LOOP SYSTEM





# OUR WORKFORCE SUPPORT

We have our own Skills and Employment Coordinator with strong local connections, who works with Park tenants to understand their workforce needs. They work with education and training agencies, Work and Income, Corrections and a range of other local agencies to deliver the workforce our businesses require. They also work with job-seekers in the local community and connect them with available jobs.

## Our Skills and Employment Co-ordinator will:

01

Work with education and training agencies to provide bespoke training to meet your and your employees' needs.

02

Help you create workforce development plans for your business and ensure that your workforce will be ready to work in your business the minute it's up-and-running at The Park.

03

Where required, provide pastoral support for employees to address workplace, whanau or personal issues, so your employees can continue to thrive in the workplace.

04

Offer provisioning of ongoing, on-site, on-the-job training



***We would love you to visit the  
park and see how we could  
work alongside each other.***

***[Suzanne.hall@ngawhainnovation.co.nz](mailto:Suzanne.hall@ngawhainnovation.co.nz)***

***0274994797***



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# WHY HEMP?

How can hemp be used in FARMING:

-  Farming as an alternative land use and cash crop plus phytoremediation, heavy metal removal and soil cleaning/ conditioning.
-  Use for nitrogen uptake, and climate change
-  mitigation. Crop rotation and break cropping in collaboration with other primary industries.



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# WHY HEMP?

How can hemp be used in FOOD INDUSTRY:

-  Seeds for food and utilising local circular economy by-product streams to make new and innovative products.
-  Hemp seed nutritional products for humans and animals as well as seed multiplication for northern hemisphere hempseed companies.
-  Future uses of hemp leaf, sprouts and roots.



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TOUR 20  
22

FOOD • FIBRE • HEALTH

# WHY HEMP?

How can hemp be used in the FIBRE INDUSTRY:

- Investment in decortication and primary processing would enable enterprises to scale and enter markets for high and low tech industrial uses.
- Collaboration with other primary sectors, such as forestry and wool.



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# WHY HEMP?

How can hemp be used in the HEALTH INDUSTRY:



Female plant cultivation for the emerging health and wellness industry, utilising cannabinoids, terpenes, and flavonoids as high-value fractions from locally grown crops for global niche markets.



Working with Mānuka, Kakawawa and other native botanicals grown in New Zealand.



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# BE IN TO WIN!

Be part  
of the  
tour &  
**WIN!**

T & C's apply, see nzhia.com

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Event  
spot  
prizes



Gift  
basket  
draw



## All registered participants will go into the draw to win a hemp gift basket!

\*T & C's apply, see nzhia.com

Valued  
at over  
\$300



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pure heart  
AOTEAROA  
hemp's golden gift



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# JOIN THE NZHIA

## BE IN TO WIN

Sign up as an NZHIA member on the tour and go into the draw to win a Hark & Zander Luxury Gift Box

**HARK & ZANDER**

Hemp products valued at \$445



Terms & conditions apply. See [www.nzhia.com](http://www.nzhia.com)



# RESOURCES

## The Next Step

Join the NZHIA so we can keep in touch

- We need a:
  - Hemp Industry Strategy Reset
  - Capability Development Program

Callahan Innovation:  
[Capability Road Maps](#)

**CallaghanInnovation**  
New Zealand's Innovation Agency

Tupu.nz: [Fact sheets for industrial hemp](#)

 **Te Puni Kōkiri**  
MINISTRY OF MĀORI DEVELOPMENT

**It's time to unlock hemp's potential for Aotearoa.**

**SUSTAINABILITY**   **NUTRITION**   **BIOMATERIALS**   **HEALTH**   **INNOVATION**



**Aotearoa New Zealand Hemp Alliance**

***Coming soon ....a new community building portal***



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# WITH THANKS

With thanks to our speakers



and regional support from  
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# GET INVOLVED - JOIN



Our mission is to promote the growth and development of the industrial hemp industry in New Zealand in all aspects. Now is the perfect time to become a member and be part of this growing industry.

**Join at [www.nzhia.com](http://www.nzhia.com)**



Growers and  
Cultivators



Testing and  
Development



Processors and  
Manufacturers



Distributors and  
Consumers